

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Armstrong

Docket No.: F2811

Serial No.: 10/773,025

Art Unit: 2629

Filed: February 4, 2004

Examiner: Chow, Doon Y.

For: Image Controller

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Applicant wishes to bring to the attention of the Patent and Trademark Office the information noted on the enclosed form PTO/SB/08A & 08B that may be considered material to the examination of the above-identified application. Applicant believes that the Examiner has already considered the information listed on the enclosed form and requests that the information be printed on the patent that issues from this allowed application.

The present application is a continuing application that claims benefit under 35 U.S.C. § 120 to parent application 09/893,292. The Examiner of an application filed under 37 CFR § 1.53(b) will consider information that has been considered by the Office in the parent application. M.P.E.P. § 609.02. The Applicant desires that the prior art considered by the Office in the parent application information be printed on a patent issuing from the continuing application. Accordingly, the Applicant submits the attached Form PTO/SB/08A & 08B listing the information that was considered by the Office in the parent application, 09/893,292, and

requests that this information be included on the printed patent issuing from the present application.

This Information Disclosure Statement is submitted under M.P.E.P. § 609.02. No fee is believed due in connection with this filing. However, should one be deemed due, the Commissioner is hereby authorized to charge, or credit any overpayment, Deposit Account No. 50-1065.

Respectfully submitted,

June 27, 2007  
Date

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Substitute for form 1449A/PTO			<b>Complete if Known</b>	
			Application Number	10/773,025
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	1	of	33	
<i>(Use as many sheets as necessary)</i>				

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-2,430,284	11-04-1947	Evers	
	2	US-3,296,882	01-10-1967	Durand	
	3	US-3,611,068	10-05-1971	Fujita	
	4	US-3,693,425	09-26-1972	Starita, et al.	
	5	US-3,710,050	01-09-1973	Richards	
	6	US-3,771,037	11-06-1973	Bailey	
	7	US-3,806,471	04-23-1974	Mitchell	
	8	US-3,921,445	11-25-1975	Hill, et al.	
	9	US-3,952,173	04-20-1976	Tsuji, et al.	
	10	US-3,988,556	10-26-1976	Hyodo	
	11	US-3,993,884	11-23-1976	Kondur, et al.	
	12	US-4,099,409	07-11-1978	Edmond	
	13	US-4,133,012	01-02-1979	Takamiya, et al.	
	14	US-4,158,759	06-19-1979	Mason	
	15	US-4,164,634	08-14-1979	Gilano	
	16	US-4,216,467	08-05-1980	Colston	
	17	US-4,224,602	09-23-1980	Anderson, et al.	
	18	US-4,246,452	01-20-1981	Chandler	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	19	EP 0 835 676 A1	04-15-1998	Sega Enterprises, Ltd.		
	20	JP 61292734	12-23-1986	Hal Lab Inc.		
	21	DE 19803627	08-05-1999	Baltus Rene		
	22	EP 0295368	12-21-1988	IBM Corp.		
	23	JP 9223607	08-26-1997	Teikoku Tsushin Kogyo Co Ltd.		

Examiner Signature		Date Considered	
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			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
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<i>(Use as many sheets as necessary)</i>				

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	24	US-4,268,815		05-19-1981	Eventoff	
	25	US-4,276,538		06-30-1981	Eventoff	
	26	US-4,297,542		10-27-1981	Shumway	
	27	US-4,301,337		11-17-1981	Eventoff	
	28	US-4,313,113		01-26-1982	Thornburg	
	29	US-4,314,228		02-02-1982	Eventoff	
	30	US-4,314,227		02-02-1982	Eventoff	
	31	US-4,315,238		02-09-1982	Eventoff	
	32	US-4,348,142		09-07-1982	Figour	
	33	US-4,349,708		09-14-1982	Asher	
	34	US-4,369,663		01-25-1983	Venturello, et al.	
	35	US-4,369,971		01-25-1983	Chang, et al.	
	36	US-4,385,841		05-31-1983	Kramer	
	37	US-4,406,217		09-27-1983	Oota	
	38	US-4,408,103		10-04-1983	Smith	
	39	US-4,414,537		11-08-1983	Grimes	
	40	US-4,419,653		12-06-1983	Waigand	
	41	US-4,420,808		12-13-1983	Diamond, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	42	EP	663648	07-19-1995	IBM Corp.		
	43	JP	5151828	06-18-1993	Yokohama Rubber Co Ltd.		
	44	JP	4155707	05-28-1992	Yokohama Rubber Co. Ltd.		
	45	SG	8095	08-16-1995			
	46	JP	6154422	06-03-1994	Namco Ltd.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
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			Art Unit	2629
			Examiner Name	Chow, Doon Y. <sup>6</sup>
<i>(Use as many sheets as necessary)</i>			Attorney Docket Number	F2811
Sheet	3	of	33	

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		Number - Kind Code <sup>2</sup> (if known)			
	47	US-4,469,330	09-04-1984	Asher	
	48	US-4,469,930	09-04-1984	Takahashi	
	49	US-4,489,302	12-18-1984	Eventoff	
	50	US-4,490,587	12-25-1984	Miller	
	51	US-4,491,325	01-01-1985	Bersheim	
	52	US-4,504,059	03-12-1985	Weinrieb	
	53	US-4,514,600	04-30-1985	Lentz	
	54	US-4,536,746	08-20-1985	Gobeli	
	55	US-4,546,347	10-08-1985	Kirsch	
	56	US-4,552,360	11-12-1985	Bromley, et al.	
	57	US-4,555,960	12-03-1985	King	
	58	US-4,573,682	03-04-1986	Mayon	
	59	US-4,604,509	08-05-1986	Clancy, et al.	
	60	US-4,609,502	08-05-1986	Thomas	
	61	US-4,615,252	10-07-1986	Yamauchi, et al.	
	62	US-4,630,823	12-23-1986	Grant	
	63	US-4,647,916	03-03-1987	Boughton	
	64	US-4,667,271	05-19-1987	Wilson	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	65	JP 7281824	10-27-1995	Namco Ltd.		
	66	JP 9213168	08-15-1997	Teikoku Tsushin Kogyo Co Ltd.		
	67	JP 9218737	08-19-1997	Namco Ltd.		
	68	JP 9223607	08-26-1997	Teikoku Tsushin Kogyo Co Ltd.		
	69	JP 11031606	02-02-1999	Teikoku Tsushin Kogyo Co Ltd.		

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			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	4	of	33	
<i>(Use as many sheets as necessary)</i>				

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		Number - Kind Code <sup>2</sup> (if known)			
	70	US-4,670,743	06-02-1987	Zemke	
	71	US-4,673,919	06-16-1987	Kataoka	
	72	US-4,680,577	07-14-1987	Straayer, et al.	
	73	US-4,684,089	08-04-1987	Lely	
	74	US-4,687,200	08-18-1987	Shirai	
	75	US-4,694,231	09-15-1987	Alvite	
	76	US-4,724,292	02-09-1988	Ichikawa	
	77	US-4,733,214	03-22-1988	Andresen	
	78	US-4,745,301	05-17-1988	Michalchik	
	79	US-4,766,271	08-23-1988	Mitsubishi, et al.	
	80	US-4,786,895	11-22-1988	Castaneda	
	81	US-4,811,608	03-14-1989	Hilton	
	82	US-4,855,704	08-08-1989	Betz	
	83	US-4,858,930	08-22-1989	Sato	
	84	US-4,866,542	09-12-1989	Shimada, et al.	
	85	US-4,866,544	09-12-1989	Hashimoto	
	86	US-4,879,556	11-07-1989	Duimel	
	87	US-4,910,503	03-20-1990	Brodsky	

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	88	RU 2010369	03-30-1994	Smyslov		
	89	WO 9532776	12-07-1995	Fujiwara, et al.		
	90	WO 9957630	11-11-1999	Scientific Atlanta		
	91	EP 0905725	03-31-1999	Eaton Corp.		
	92	GB 2155953	10-02-1985	Permelec Electrode Ltd.		

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	93	US-4,909,514	03-20-1990	Tano	
	94	US-4,924,216	05-08-1990	Leung	
	95	US-4,933,670	06-12-1990	Wislocki	
	96	US-4,935,728	06-19-1990	Kley	
	97	US-4,962,448	10-09-1990	Demaio, et al.	
	98	US-4,975,676	12-04-1990	Greenhalgh	
	99	US-5,038,144	08-06-1991	Kaye	
	100	US-5,059,958	10-22-1991	Jacobs, et al.	
	101	US-5,065,146	11-12-1991	Garrett	
	102	US-5,068,498	11-26-1991	Engel	
	103	US-5,103,404	04-07-1992	McIntosh	
	104	US-5,116,051	05-26-1992	Moncrief, et al.	
	105	US-5,128,671	07-07-1992	Thomas	
	106	US-5,132,658	07-21-1992	Dauenhauer, et al.	
	107	US-5,139,439	08-18-1992	Shie	
	108	US-5,142,931	09-01-1992	Menahem	
	109	US-5,164,697	11-17-1992	Kramer	
	110	US-5,168,221	12-01-1992	Houston	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	111	WO 9718508	05-22-1997	Synaptics Inc.		
	112	DE 4013227	05-29-1991	Poulsom, et al.		
	113	CA 2038894	05-24-1994	Whitaker Corp.		
	114	WO 9428387	08-08-1995	Incontrol Solutions Inc.		
	115	DE 69306678 T	01-30-1997	Texas Instruments Inc.		

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	116	US-5,182,796	01-26-1993	Shibayama, et al.	
	117	US-5,183,998	02-02-1993	Hoffman, et al.	
	118	US-5,184,830	02-09-1993	Okada, et al.	
	119	US-5,189,355	02-23-1993	Larkins, et al.	
	120	US-5,196,782	03-23-1993	D'aleo, et al.	
	121	US-5,200,597	04-06-1993	Eastman	
	122	US-5,203,563	04-20-1993	Loper	
	123	US-5,207,426	05-04-1993	Inque, et al.	
	124	US-5,222,400	06-29-1993	Hilton	
	125	US-5,231,386	07-27-1993	Brandenburg, et al.	
	126	US-5,237,311	08-17-1993	Mailey, et al.	
	127	US-5,250,930	10-05-1993	Yoshida, et al.	
	128	US-5,252,952	10-12-1993	Frank, et al.	
	129	US-5,259,626	11-09-1993	Ho	
	130	US-5,264,768	11-23-1993	Gregory, et al.	
	131	US-5,271,290	12-21-1993	Fischer	
	132	US-D342,740	12-28-1993	Parker	
	133	US-5,278,557	01-11-1994	Stokes, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	134	JP 658419	03-01-1994	Texas Instruments Inc.		
	135	WO 9318475	12-31-1996	Armstrong		
	136	EP 0451676 A1	10-16-1991	Nokia Unterhaltungselektronik		
	137	DE 4011636	10-24-1991	Nokia Unterhaltungselektronik		
	138	JP 4230918	08-19-1992	Nokia Unterhaltungselektronik		

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				Application Number	10/773,025
		Filing Date	February 4, 2004		
		First Named Inventor	Armstrong		
		Art Unit	2629		
		Examiner Name	Chow, Doon*Y.		
Sheet	7	of	33	Attorney Docket Number	F2811
		<i>(Use as many sheets as necessary)</i>			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	139	US-5,280,926	01-25-1994	Sogge, et al.	
	140	US-5,287,089	02-15-1994	Parsons	
	141	US-5,286,024	02-15-1994	Winblad	
	142	US-5,293,158	03-08-1994	Soma	
	143	US-5,294,121	03-15-1994	Chiang	
	144	US-5,298,919	03-29-1994	Chang	
	145	US-5,311,779	05-17-1994	Teruo	
	146	US-5,313,229	05-17-1994	Gilligan, et al.	
	147	US-5,315,204	05-24-1994	Park	
	148	US-5,327,201	07-05-1994	Coleman, et al.	
	149	US-5,329,276	07-12-1994	Hirabayashi	
	150	US-5,333,057	07-26-1994	Morikawa, et al.	
	151	US-5,345,807	09-13-1994	Butts, et al.	
	152	US-5,349,371	09-20-1994	Fong	
	153	US-5,355,352	10-11-1994	Kobayashi, et al.	
	154	US-5,364,108	11-15-1994	Esnouf	
	155	US-5,365,494	11-15-1994	Lynch	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	156	AU 544234	05-23-1985	Eventoff		
	157	CA 1143030	03-15-1983	Eventoff		
	158	CA 1153801	09-13-1983	Eventoff		
	159	CA 1161921	02-07-1984	Eventoff		
	160	CA 1153577	09-13-1983	Eventoff		

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			Application Number	10/773,025	
			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
Sheet	8	of	33	Attorney Docket Number	F2811

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		Number - Kind Code <sup>2</sup> (if known)			
	161	US-5,376,913	12-27-1994	Pine, et al.	
	162	US-5,386,084	01-31-1995	Risko	
	163	US-5,389,757	02-14-1995	Souliere	
	164	US-5,391,083	02-21-1995	Roebuck, et al.	
	165	US-D355,901	02-28-1995	Bradley	
	166	US-5,394,168	02-28-1995	Smith, III, et al.	
	167	US-5,396,235	03-07-1995	Maeshima	
	168	US-5,396,225	03-07-1995	Okada, et al.	
	169	US-5,399,823	03-21-1995	McCusker	
	170	US-5,419,613	05-30-1995	Wedeking	
	171	US-5,440,237	08-08-1995	Brown, et al.	
	172	US-5,452,615	09-26-1995	Hilton	
	173	US-5,457,478	10-10-1995	Frank	
	174	US-5,459,487	10-17-1995	Bouton	
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	176	US-5,487,053	01-23-1996	Beiswenger, et al.	
	177	US-5,499,041	03-12-1996	Brandenburg, et al.	
	178	US-5,508,719	04-16-1996	Gervais	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	179	CA 1153802	09-13-1983	Eventoff		
	180	CA 1153803	09-13-1983	Eventoff		
	181	DE 3044384	08-27-1981	Eventoff		
	182	FR 2470435	05-29-1981	Eventoff		
	183	GB 2064873	06-17-1981	Eventoff		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/773,025	
			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
Sheet	9	of	33	Attorney Docket Number	F2811

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		Number - Kind Code <sup>2</sup> (if known)			
	184	US-5,510,812	04-23-1996	O'Mara, et al.	
	185	US-5,512,892	04-30-1996	Corballis	
	186	US-5,517,211	05-14-1996	Kwang-Chien	
	187	US-5,528,265	06-18-1996	Harrison	
	188	US-5,530,455	06-25-1996	Gillick, et al.	
	189	US-5,541,622	07-30-1996	Engle, et al.	
	190	US-5,543,781	08-06-1996	Ganuchau, Jr., et al.	
	191	US-5,550,339	08-27-1996	Haugh	
	192	US-5,552,799	09-03-1996	Hashiguchi	
	193	US-5,551,693	09-03-1996	Goto, et al.	
	194	US-5,555,004	09-10-1996	Ono, et al.	
	195	US-5,559,432	09-24-1996	Logue	
	196	US-5,565,891	10-15-1996	Armstrong	
	197	US-5,564,560	10-15-1996	Minelli, et al.	
	198	US-5,589,828	12-31-1996	Armstrong	
	199	US-5,591,924	01-07-1997	Hilton	
	200	US-5,602,569	02-11-1997	Kato	
	201	US-5,606,594	02-25-1997	Register, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	202	GB 2134320	08-08-1984	Eventoff		
	203	GB 2134321	08-08-1984	Eventoff		
	204	GB 213422	08-08-1984	Preston, et al.		
	205	IT 1143185	10-22-1986	Eventoff		
	206	JP 5196524	08-06-1993	Eventoff		

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			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	10	of	33	
<i>(Use as many sheets as necessary)</i>				

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	207	US-5,607,158	03-04-1997	Chan	
	208	US-5,615,083	03-25-1997	Burnett	
	209	US-5,640,566	06-17-1997	Victor, et al.	
	210	US-5,644,113	07-01-1997	Date, et al.	
	211	US-D381,982	08-05-1997	Zeitman	
	212	US-5,657,051	08-12-1997	Liao	
	213	US-5,659,334	08-19-1997	Yaniger, et al.	
	214	US-4,045,650	08-30-1977	Nestor	
	215	US-5,670,955	09-23-1997	Thorn, et al.	
	216	US-5,670,988	09-23-1997	Tickle	
	217	US-5,669,818	09-23-1997	Thorner, et al.	
	218	US-5,673,237	09-30-1997	Blank	
	219	US-5,675,329	10-07-1997	Barker, et al.	
	220	US-5,675,309	10-07-1997	Devolpi	
	221	US-5,675,359	10-07-1997	Anderson	
	222	US-5,684,759	11-04-1997	Huang, et al.	
	223	US 5,687,080	11-11-1997	Hoyt, et al.	
	224	US-5,689,285	11-18-1997	Asher	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	225	JP 6058276	08-03-1994	Daikin Ind. Ltd.		
	226	JP 2108444	11-06-1996	Kawasaki Steel Corp.		
	227	JP 5197381	08-06-1993	Eventoff		
	228	JP 6101567	12-12-1994	Riken Corp.		
	229	JP 1125871	05-18-1989	Eventoff		

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Sheet	11	of	33	

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	230	US-5,706,027	01-06-1998	Hilton, et al.	
	231	US-5,704,612	01-06-1998	Kelly et al.	
	232	US-5,716,274	02-10-1998	Goto, et al.	
	233	US-5,738,352	04-14-1998	Ohkubo, et al.	
	234	US-5,749,577	05-12-1998	Couch, et al.	
	235	US-5,764,219	06-09-1998	Rutledge, et al.	
	236	US-5,767,840	06-16-1998	Selker	
	237	US-5,767,839	06-16-1998	Rosenberg	
	238	US-5,767,840	06-16-1998	Selker	
	239	US-5,774,109	06-30-1998	Winsky, et al.	
	240	US-5,778,404	07-07-1998	Capps, et al.	
	241	US-5,781,807	07-14-1998	Glassgold, et al.	
	242	US-5,790,102	08-04-1998	Nassima	
	243	US-5,805,138	09-08-1998	Brawne, et al.	
	244	US-5,812,114	09-22-1998	Loop	
	245	US-5,815,139	09-29-1998	Yoshikawa	
	246	US-5,828,363	10-27-1998	Yaniger, et al.	
	247	US-5,831,596	11-03-1998	Marshall, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	248	JP 5022398	03-29-1993	Canon Inc.		
	249	NL 8006409	06-16-1981	Eventoff		
	250	SE 452925	12-21-1987	Eventoff		
	251	SE 8008205	05-27-1981	Eventoff		
	252	JP 2049029	10-26-1990	Nippon Telegraph & Telephone Corp.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	12	of	33	
<i>(Use as many sheets as necessary)</i>				

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	253	US-5,835,977	11-10-1998	Kamentser, et al.	
	254	US-4,786,764	11-22-1988	Padula, et al.	
	255	US-5,847,305	12-08-1998	Yoshikawa, et al.	
	256	US-5,847,639	12-08-1998	Yaniger	
	257	US-5,847,694	12-08-1998	Redford, et al.	
	258	US-5,847,698	12-08-1998	Reavy, et al.	
	259	US-5,854,624	12-29-1998	Grant	
	260	US-5,853,326	12-29-1998	Goto, et al.	
	261	US-5,854,622	12-29-1998	Brannon	
	262	US-5,867,808	02-02-1999	Selker, et al.	
	263	US-5,872,521	02-16-1999	Lopatukin, et al.	
	264	US-5,883,619	03-16-1999	Ho, et al.	
	265	US-5,889,236	03-30-1999	Gillespie, et al.	
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	267	US-5,895,471	04-20-1999	King et al.	
	268	US-5,898,359	04-27-1999	Ellis	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	271	JP 56108279	08-27-1981	Eventoff		
	272	WO 9304348	03-04-1993	Spaceball Technologies Inc.		
	273	DE 3687571 T	03-04-1993	Spatial Systems Party Ltd.		
	274	EP 0227432	07-01-1987	Hilton		
	275	JP 62177426	08-04-1987	Spatial Systems Party Ltd.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
Sheet	13	of	33	Attorney Docket Number	F2811
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	278	US-5,917,779	06-29-1999	Ralson, et al.	
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	280	US-5,923,267	07-13-1999	Beuk, et al.	
	281	US-5,943,044	08-24-1999	Martinelli, et al.	
	282	US-5,948,066	09-07-1999	Whalen, et al.	
	283	US-5,952,631	09-14-1999	Miyaki	
	284	US-5,963,196	10-05-1999	Nishiumi et al.	
	285	US-5,966,117	10-12-1999	Seffernick, et al.	
	286	US-5,974,238	10-26-1999	Chase	
	287	US-5,973,668	10-26-1999	Watanabe	
	288	US-5,983,004	11-09-1999	Shaw, et al.	
	289	US-5,984,785	11-16-1999	Takeda, et al.	
	290	US-5,991,594	11-23-1999	Froeber, et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	294	GB 2133957 A	08-01-1984	International Computers Ltd.		
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	296	EP 0861462	09-02-1998	Synaptics Inc.		
	297	AU 557120	12-04-1986	International Computers Ltd.		
	298	AU 2379484	08-02-1984	International Computers Ltd.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	14	of	33	
<i>(Use as many sheets as necessary)</i>				

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	300	US-6,001,014		12-14-1999	Ogata, et al.	
	301	US-6,004,210		12-21-1999	Shinohara	
	302	US-6,020,884		02-01-2000	MacNaughton, et al.	
	304	US-6,027,828		02-22-2000	Hahn	
	305	US-6,037,954		03-14-2000	McMahon	
	306	US-6,040,821		03-21-2000	Franz, et al.	
	307	US-6,049,812		04-11-2000	Bertram, et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)						
	318	ZA 8400356			08-29-1984	International Computers Ltd.		
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	320	GB 2240614 A			08-07-1991	Dzholdasbekov, et al.		
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	322	DE 19519941 C1			03-13-1997	Wergen		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	15	of	33	
<i>(Use as many sheets as necessary)</i>				

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		Number - Kind Code <sup>2</sup> (if known)			
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	324	US-6,124,845	09-26-2000	Toda, et al.	
	325	US-6,135,886	10-24-2000	Armstrong	
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	332	US-6,198,473	03-06-2001	Armstrong	
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	338	US-6,231,444	05-15-2001	Goto, et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	342	EP 0438919 A2	07-31-1991	Bristish Aerospace PLC		
	343	EP 0616298 A1	09-21-1994	Matsushita Electric Industrial Co., Ltd.		
	344	JP 587760	11-26-1993	Mitsumi		
	345	JP 7302159	11-14-1995	Sega Enterprises, Ltd.		
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			Art Unit	2629	
			Examiner Name *	Chow, Doon Y.	
Sheet	16	of	33	Attorney Docket Number	F2811

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	351	US-6,326,948	12-04-2001	Kobachi, et al.	
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	365	DE 3634912	04-28-1988	Link KG J		
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	372	US-6,518,953	02-11-2003	Armstrong	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
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			Application Number	10/773,025
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
<i>(Use as many sheets as necessary)</i>			Attorney Docket Number	F2811
Sheet	18	of	33	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	393	US-6,239,790	05-29-2001	Martinelli, et al.	
	394	US-5,841,078	11-24-1998	Miller, et al.	
	395	US-5,648,642	07-15-1997	Miller, et al.	
	396	US-6,239,389	05-29-2001	Allen, et al.	
	397	US-5,495,077	02-27-1996	Miller, et al.	
	398	US-5,543,588	08-06-1996	Bisset, et al.	
	399	US-5,861,583	01-19-1999	Schediwy, et al.	
	400	US-5,880,411	03-09-1999	Gillespie, et al.	
	401	US-5,942,733	08-24-1999	Allen, et al.	
	402	US-5,543,591	08-06-1996	Gillespie, et al.	
	403	US-6,028,271	02-22-2000	Gillespie, et al.	
	404	US-5,488,204	01-30-1996	Mead, et al.	
	405	US-5,374,787	12-20-1994	Miller, et al.	
	406	US-5,914,465	06-22-1999	Allen, et al.	
	407	US-5,543,590	08-06-1996	Gillespie, et al.	
	408	US-5,043,721	08-27-1991	May, et al.	
	409	US-5,675,524	10-07-1997	Bernard, et al.	
	410	US-2002/0036660	03-28-2002	Adan, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	411	JP 60175401	09-09-1985	Asahi Chemical Ind.		
	412	JP 62160623	07-16-1987	Yamatate Honeywell Co. Ltd.		
	413	JP 2158105	06-18-1990	Yokohama Rubber Co. Ltd.		
	414	JP 3108701	05-08-1991	Canon Inc.		
	415	EP 0952555 A1	10-27-1999	Sega Enterprises, Ltd.		

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			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
Sheet	19	of	33	Attorney Docket Number	F2811

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	416	US-2001/0009037	07-19-2001	Komata	
	417	US-2001/0040585	11-15-2001	Hartford et al.	
	418	US-2002/0122027	09-05-2002	Kim	
	419	US-4,916,262	04-1990	Jungels-Butler, et al.	
	420	US-5,729,249	03-1998	Yasutake	
	421	US-5,659,334	08-1997	Yansiger, et al.	
	422	US-6,004,134	12-1999	Marcus, et al.	
	423	US-5,138,119	08-1992	Demeo	
	424	US-5,349,370	09-20-1994	Katayama, et al.	
	425	US-5,049,079	09-17-1991	Furtado, et al.	
	426	US-5,687,331	11-11-1997	Volk, et al.	
	427	US-5,542,039	07-30-1996	Brinson, et al.	
	428	US-4,850,591	07-25-1989	Takezawa	
	429	US-6,217,444	04-17-2001	Kataoka, et al.	
	430	US-6,007,423	12-28-1999	Nakamura	
	431	US-5,184,120	02-02-1993	Sehaltz	
	432	US-5,555,894	09-17-1996	Doyama, et al.	
	433	US-5,673,066	09-30-1997	Toda, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	434	EP 0852961 A1	07-15-1998	Konami Co., Ltd.		
	435	WO 0152042	07-19-2001	Sony Computer Entertainment Inc.		
	436	TW 288636	10-11-1996	Primax Electronic Ltd.		
	437	TW 369431	09-11-1999	Sony Computer Entertainment, Inc.		
	438	WO 9307606	04-15-1993	Copper, et al.		

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			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
Sheet	20	of	33	Attorney Docket Number	F2811

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		Number - Kind Code <sup>2</sup> (if known)			
	439	US-5,853,324	12-29-1998	Kami, et al.	
	440	US-6,146,278	11-14-2000	Kobayashi	
	441	US-6,031,516	02-29-2000	Leiper	
	442	US-6,041,068	03-21-2000	Rosengren, et al.	
	443	US-5,358,259	10-25-1994	Best	
	444	US-6,147,674	11-14-2000	Rosenberg, et al.	
	445	US-6,225,976	05-01-2001	Yates, et al.	
	446	US-6,322,448	11-27-2001	Kaku, et al.	
	447	US-6,414,996	07-02-2002	Owen, et al.	
	448	US-6,400,353	06-04-2002	Ikahara, et al.	
	449	US-4,713,007	12-15-1987	Alban	
	450	US-6,155,926	12-05-2000	Miyamoto, et al.	
	451	US-6,028,531	02-22-2000	Wanderlich	
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	455	US-4,503,705	03-12-1985	Polchaninoff	
	456	US-4,756,076	07-12-1988	Dyben, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	457	JP 140545	04-12-1989			
	458	JP 5326217	12-10-1993	Mitsumi Electric Co. Ltd.		
	459	JP 63029113	08-16-1989	Yamaha Corp.		
	460	EP 0470615	02-12-1992	Nintendo Co. Ltd.		
	461	AU 645462	01-13-1994	Nintendo Co. Ltd.		

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			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
Sheet	21	of	33	
<i>(Use as many sheets as necessary)</i>				

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	462	US-4,845,457	07-04-1989	Nakanishi	
	463	US-4,996,511	02-26-1991	Ohkawa, et al.	
	464	US-3,986,254	10-19-1976	Nordstrom	
	465	US-4,640,137	02-03-1987	Trull, et al.	
	466	US-4,715,235	12-29-1987	Fukui, et al.	
	467	US-4,729,809	03-08-1988	Dery, et al.	
	468	US-5,453,727	09-26-1995	Shibasaki, et al.	
	469	US-4,426,884	01-24-1984	Polchaninoff	
	470	US-4,794,365	12-27-1988	Dunbar	
	471	US-4,994,781	02-19-1991	Sahagen	
	472	US-5,455,556	10-03-1995	Ohm, et al.	
	473	US-4,257,305	03-24-1981	Friend, et al.	
	474	US-4,481,815	11-13-1984	Overton	
	475	US-4,837,548	06-06-1989	Lodini	
	476	US-5,635,683	06-03-1997	McDermott, et al.	
	477	US-5,406,852	04-18-1995	Hiraka, et al.	
	478	US-5,528,214	06-18-1996	Koga, et al.	
	479	US-4,706,505	11-17-1987	King	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	480	AU 8142991	02-13-1992	Nintendo Co. Ltd.		
	481	CA 2048167	02-10-1992	Nintendo Co. Ltd.		
	482	CN 1058728	12-19-1992	Nintendo Co. Ltd.		
	483	DE 69114400 T	12-14-1995	Nintendo Co. Ltd.		
	484	ES 2079529	01-16-1996	Nintendo Co. Ltd.		

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				Examiner Name	Chow, Doon Y.
				Attorney Docket Number	F2811
Sheet	22	of	33		

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	485	US-4,929,804		05-29-1990	Kawai, et al.	
	486	US-5,483,994		01-16-1996	Maurer	
	487	US-5,014,224		05-07-1991	Hans	
	488	US-5,510,589		04-23-1996	Arnal	
	489	US-4,534,420		08-13-1985	Goldelius	
	490	US-4,694,231		09-15-1987	Alvite	
	491	US-4,738,146		04-19-1988	Baumgartner, et al.	
	492	US-4,710,744		12-01-1987	Wamstad	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	493	HK 30195		03-17-1995	Nintendo Co. Ltd.		
	494	GB 2247107		08-07-1991	Nintendo Co. Ltd.		
	495	KR 9705724		06-11-1997	Burr Brown Corp.		
	496	MX 9100564		04-01-1992	Nintendo Co. Ltd.		
	497	DE 3543890		06-19-1987	Thomas Brandt GMBH		

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				Examiner Name	Chow, Doon Y.
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	498	EP 0205726	12-30-1986	Hal Lab Inc.		
	499	SU 739505	06-05-1980	Baranov, et al.		
	500	EP 0302158	02-08-1989	Capcom Co., Ltd.		
	501	EP 0830881 A1	03-25-1998	Konami Co., Ltd.		
	502	EP 0626634 A2	11-30-1994	Matsushi Electric Industrial Co., Ltd.		

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				Application Number	10/773,025	
Sheet		24	of	33	Examiner Name	Chow, Doon Y.
					Attorney Docket Number	F2811

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	503	EP 0403054	12-19-1990	Quantel Ltd.		
	504	JP 11009837	01-19-1999	Taito Corp.		
	505	DE 4004760	08-22-1991	Univ Kazakhsky		
	506	JP 4077335	03-11-1992	NKK Corp.		
	507	JP 63318623	12-27-1991	IBM Corp.		

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	25	of	33	
				Application Number
				Filing Date
				First Named Inventor
				Art Unit
				Examiner Name
				Attorney Docket Number
				10/773,025
				February 4, 2004
				Armstrong
				2629
				Chow, Doon Y.
				F2811

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	508	EP	0169624	01-29-1986	Nippon		
	509	EP	0050231	04-28-1982	Bosch Siemens Hausgeraete		
	510	CA	1203738	04-29-1986	CAE Electronics Ltd.		
	511	WO	9522828	08-24-1995	Interlink Electronic		
	512	JP	1976280	10-17-1995	Eventoff		

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			Application Number	10/773,025	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	February 4, 2004	
			First Named Inventor	Armstrong	
			Art Unit	2629	
			Examiner Name	Chow, Doon Y.	
			Attorney Docket Number	F2811	
Sheet	26	of	33		
<i>(Use as many sheets as necessary)</i>					

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	513	JP 1993198	11-22-1995	Eventoff		
	514	JP 1710832	11-11-1992	Eventoff		
	515	JP 1875027	09-26-1994	Hilton		
	516	JP 11511580	10-05-1999	Synaptics Inc.		
	517	GB 2159953	12-11-1985	STC PLC		

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		Application Number	10/773,025		
		Filing Date	February 4, 2004		
		First Named Inventor	Armstrong		
		Art Unit	2629		
		Examiner Name	Chow, Doon Y.		
Sheet	27	of	33	Attorney Docket Number	F2811

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	517	JP	6511340 T	12-15-1994	Copper, et al.		
	518	EP	0606388	07-20-1994	Copper, et al.		
	519	CA	120502	04-15-1993	Copper, et al.		
	520	AU	2780892	05-03-1993	Copper, et al.		
	521	AU	667688	04-04-1996	Copper, et al.		

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	527	JP	10505183 T	05-19-1998	Allen, et al.		
	528	EP	0777888	06-11-1997	Allen, et al.		
	529	AU	3544495	03-27-1996	Allen, et al.		
	530	WO	9607966	03-14-1996	Allen, et al.		
	531	KR	264640	10-02-2000	Allen, et al.		

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	532	JP 10505182 T	05-19-1998	Allen, et al.		
	533	EP 0777875	06-11-1997	Allen, et al.		
	534	DE 69521617 D	08-09-2001	Allen, et al.		
	535	CN 1166214	11-26-1997	Allen, et al.		
	536	AU 3544395	03-27-1996	Allen, et al.		

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	537	WO 9718508	05-22-1997	Allen, et al.		
	538	JP 11511580 T	10-05-1999	Allen, et al.		
	539	EP 0861462	09-02-1998	Allen, et al.		
	540	CN 1202254	12-16-1998	Allen, et al.		
	541	JP 1204098	08-16-1989	Yamaha Corp.		

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			Filing Date	February 4, 2004
			First Named Inventor	Armstrong
			Art Unit	2629
			Examiner Name	Chow, Doon Y.
			Attorney Docket Number	F2811
<i>(Use as many sheets as necessary)</i>				
Sheet	32	of	33	

NON PATENT LITERATURE DOCUMENTS			
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	542	"Universal Serial Bus (USB), Device Class Definition for Human Devices, Firmware Specification," draft manual version 1.1, October 14, 1998, printed from website <a href="http://www.usb.org">www.usb.org</a> in November 1998.	
	543	NAMCO, CO., Photographs of game controller and written description of handheld controller for video games has a button to drive a gear and rotate a rotary potentiometer which creates an analog signal change based on positional change; to be considered prior art to some of Applicants claims.	
	544	"Mouse Ball-Actuating Device with Force and Tactile Feedback", IBM Disclosure Bulletin, Feb. 1990, vol. 32, no. 9B, pp. 230-235.	
	545	"Research Disclosures", Nov. 1987, vol. 283, "Joystick with Tactile Feedback".	
	546	SIVA, K.V., "Development of a General Purpose Hand Controller for Advanced Teleoperation", Article, July 1988, Harwell Laboratory, UK.	
	547	KAMBIC, S.F., "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode", IBM Technical Disclosure Bulletin, October 1977, vol. 20, no., 5, pp. 1833-1834.	
	548	"Questel-Orbit QWEB", Web search results, December 1999, pp. 1-24 including short descriptions and abstracts.	
	549	LOGITECH, INC., "Cyberman 3D Controller", Advertisement, 1993, Logitech, Inc., Fremont, CA, USA.	
	550	LOGITECH, INC., "Cyberman 3D Controller" detailed photographs and description of the photographs.	
	551	"Flightstick Pro" joystick, CH Products, San Marcos, California, a joystick which uses a gymbal and rotary potentiometers, the joystick is prior art sold in stores.	

Examiner Signature	Date Considered	
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>		<b>Complete if Known</b>	
		Application Number	10/773,025
		Filing Date	February 4, 2004
		First Named Inventor	Armstrong
		Art Unit	2629
		Examiner Name	Chow, Doon Y.
Sheet	33	of	33
		Attorney Docket Number	F2811

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	552	Known prior art are rotary operated potentiometers which have an Off position usually in the far counterclockwise direction of rotation and an audible "click" in provided whne rotated in and out of the Off position. Such potentiometers are variable output electrical devices controlled by rotation.	
	553	"Keyboard device for Upper and Lower Case Keying Without Shifting." IBM Technical Disclosure Bulletin, vol. 21, no. 9, February 1, 1979, pp 3845-3846.	
	554	"Inside Windows 3.11," Jim Boyce et al., New Riders Publishing, Platinum Edition, pp 87-89.	

Examiner Signature	Date Considered
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